

## ENGINEER NEWTON'S DAM.

PROPOSED FOR ANOTHER RESERVOIR  
BELOW CROTON LIKE.Plans for a New Aqueduct for Conveying  
More Water to the City—Shorter, Cheaper,  
and More Capacious than Two Others Pro-  
posed.—The Proposed Use of Salt Water.

Chief Engineer Isaac Newton's report of the result of the investigations and surveys made under his direction for a new aqueduct from the Croton River to New York was transmitted to Mayor Grace by Commissioner Thompson yesterday. In previous surveys the various sources from which it has been proposed to obtain the additional supply were the Croton, the Passaic, the Hudson, the Hudson and the Hackensack Rivers, and Lakes George, Erie, Ontario, and Champlain, also the streams in Rockland and Orange counties. The use of wells and salt water to be raised into reservoirs by pumps for auxiliary supply was likewise considered. All the sources with the exception of the Croton and Hudson, were set aside as being out of the question, on account of the immense cost, or uncertainty of sufficient supply although some of them might be used as auxiliaries. Of his survey Mr. Newton

says he came to the conclusion that the Croton is by far the most available and the most economical source of supply. He has since endeavored to determine the best plan for storing and conveying the water thus received to the city.

The quality of the Croton as a pure and wholesome water, as well as the geological and other characteristics of the river basin, are such that no other aqueduct can be constructed in the same time and at half the cost.

In constructing the Central Park reservoir from Quaker Bridge to the Central Park, the cost of the aqueduct was \$1,000,000, and the cost of the reservoirs daily when filled with water in a few inches of the top. The Baltimore aqueduct from Hampden Brook is estimated in rock, and the cost of the aqueduct and reservoirs was proposed by Mr. Newton. It is estimated that the proposed aqueduct can be constructed in three years and a half. In constructing the same it will be necessary to remove the earth for the work from three to four months each year during the winter, but when the work is completed the aqueduct will be 100 feet wide and 119 feet above the ground. Croton datum, it can be made to supply the new conduit with ample water, provided 100,000 gallons per day. It is estimated that the aqueduct will be ready in three and a half years, when a half mile of the work would probably complete the work to the Central Park reservoir. The cost of the aqueduct from Quaker Bridge to the reservoir in the Central Park is \$10,000,000. The estimate for the dam and reservoirs is \$1,000,000, so that the total cost for the aqueduct, would make the cost of the new water supply \$11,000,000.

**OPERATORS.** *Bidders and contractors making on this water works estimate.*

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